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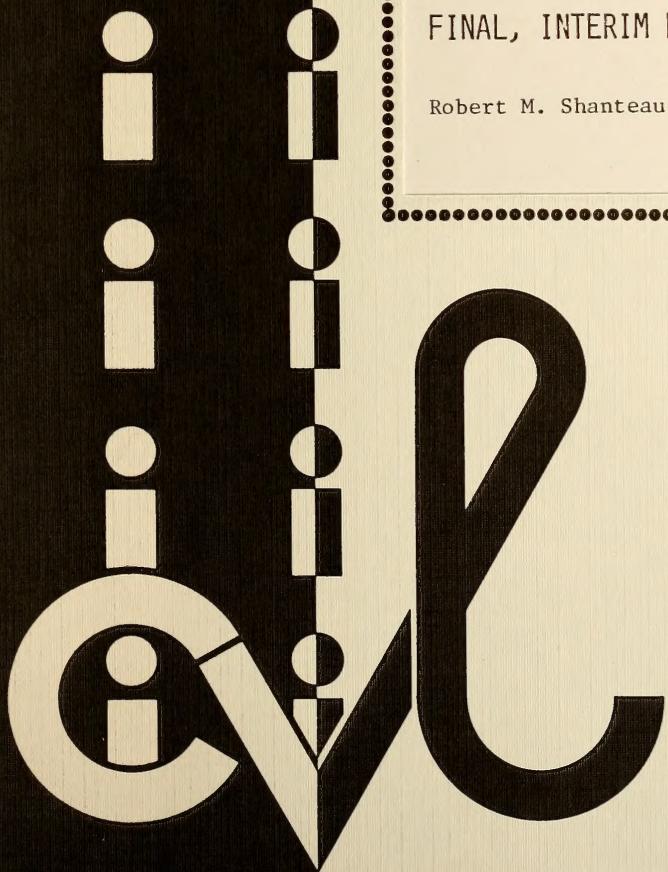
INDIANA
DEPARTMENT OF HIGHWAYS

JOINT HIGHWAY RESEARCH PROJECT

JHRP-85-2

TRAFFIC SPEED REPORT NO. 118
FINAL, INTERIM REPORT

Robert M. Shanteau



PURDUE UNIVERSITY



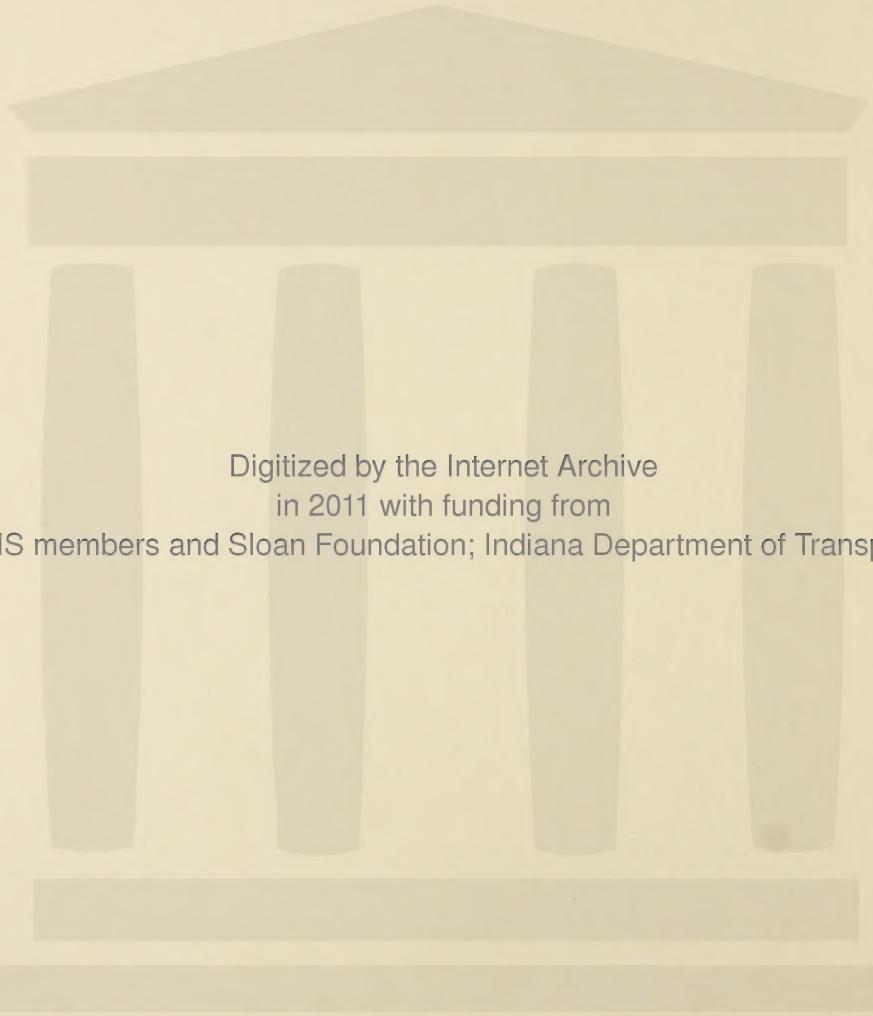


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TRAFFIC SPEED REPORT NO. 118

To: H. L. Michael, Director
Joint Highway Research Project January 30, 1985

From: R. M. Shanteau, Research Associate File: 8 - 3 - 3
Joint Highway Research Project Project: C - 36 - 10C

The attached Progress Report No. 118 is the report of the May-August 1984 study of free flow automobile and truck speeds on tangent, level and dry sections of rural interstate, urban interstate, and 4-lane and 2-lane highways in Indiana. This report has been prepared by Mr. C. J. Oliva, Computer Programmer. The data were collected by Mr. G. K. Stafford and Mr. Leroy Gray. All phases of the study were directed by Professor R. M. Shanteau, Research Associate, Purdue University.

The overall results show an average free flow speed of 57.7 mph, up by 0.3 mph from 1983. Speeds have gradually increased since the implementation of the 55 mph speed limit in 1974.

This report includes a chart, Figure 2 on page 8, that graphically summarizes the results of summer free flow speed monitoring since 1973. This chart shows that speeds of all classes of vehicles on all types of highways have gradually increased since 1974.

Copies of this report will be sent to the Indiana DOH. Copies of this report are requested for release to the Indiana State Police and other highway safety agencies, which is normal procedure for these reports.

Respectfully submitted,

Robert M. Shanteau

Robert M. Shanteau,
Research Associate

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Interim Report

TRAFFIC SPEED REPORT NO. 118

by

C. J. Oliva

Computer Programmer

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Research Associate

G. K. Stafford

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and

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Joint Highway Research Project

Project No.: C - 36 - 10C

File No.: 8 - 3 - 3

Prepared as Part of an Investigation Conducted by Joint Highway Research Project Engineering Experiment Station, Purdue University, in Cooperation with the Indiana Department of Highways

Purdue University

West Lafayette, Indiana

January 30, 1985

TRAFFIC SPEED REPORT NO. 118

This report is an analysis of spot speed observations made during the 1984 summer months of May, June, July and August. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight.

This is the fourth report with exclusively summer observations since 1975. From 1976 until 1980 (Traffic Speed Reports Nos. 95 through 114) 14 primary and secondary stations as well as another 14 randomly selected stations were monitored every quarter in conjunction with the speed certification performed for the Federal Highway Administration. Since 1981 the state and federal studies have been conducted separately.

Fourteen speed monitoring stations were used for the 1984 Traffic Speed Report calculations. These stations are divided into four categories which include: four rural interstate locations, four rural four-lane locations, four rural two-lane locations and two urban interstate locations. These 14 stations are the same as the primary and secondary control stations monitored since 1975 in Indiana. Prior to 1975 only the 12 rural stations were monitored. The locations of the 12 rural stations are essentially the same since 1970 except for stations 4L-32 (formerly number 6 on US 52) and 2L-54 (formerly number 11 on US 31), which changed in 1975.

The speed limit at all the stations is 55 mph. The site locations are given in Table 1 and shown in Figure 1.

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and light (less than 5000 lbs. gross weight) or heavy (equal to or more than 5000 lbs. gross weight) trucks. Computer analysis was performed for each vehicle classification and for combined passenger cars and combined trucks.

1. Sample Size

At each station a minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks (in each direction).

2. Equipment and Field Procedure

The observations for this study were obtained by use of a Kustom Signals Model HR-8 K-Band radar gun. The burst method using the on/off switch was used to record speeds. This method was used to avoid early detection by radar detectors. Speeds were taken from within a van or sedan parked on the right shoulder of the road or parked in an access driveway to the road. The observers were equipped with a CB radio to monitor possible radio notification

Table 1: Monitoring Locations

Rural Interstate Highways

RI-06	I-65	7.5 Miles North of State Road 160
RI-21	I-69	1.6 Miles South of State Road 18
RI-12	I-74	0.1 Miles West of 109 Mile Marker
RI-34	I-65	2.0 Miles South of State Road 39

4-Lane Highways

4L-17	US 52	150 Feet East of CR 475W (Tippecanoe Co.)
4L-32	US 30	2.9 Miles West of Wanatah City Limit Sign
4L-20	US 41	1.1 Miles North of State Road 2
4L-21	US 31	1.1 Miles South of State Road 38

2-Lane Highways

2L-18	US 35	2.5 Miles East of I-69
2L-54	US 231	1.1 Miles South of State Road 234
2L-79	SR 25	0.7 Miles South of Americus
2L-91	SR 43	2.0 Miles South of Chalmers

Urban Interstate Highways

UI-06	I-65	Just East of White River
UI-01	I-80	First Bridge East of Burr St. Interchange

of speed measurement and of police vehicles in the area. When radar speed recording was detected and subsequently broadcast on the CB radio, speeds were not taken for at least 5 minutes. This problem primarily occurred on interstate highways.

The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

3. Results of Analysis

The free flow data collected were analyzed and are summarized for each station in Tables A1 through A14 in the Appendix. Tables A15 through A18 summarize the free flow data by highway classification. Table A19 is the summary for all highways.

The results of the free flow data categorized by highway classification and vehicle type are shown in Tables 2 through 5.

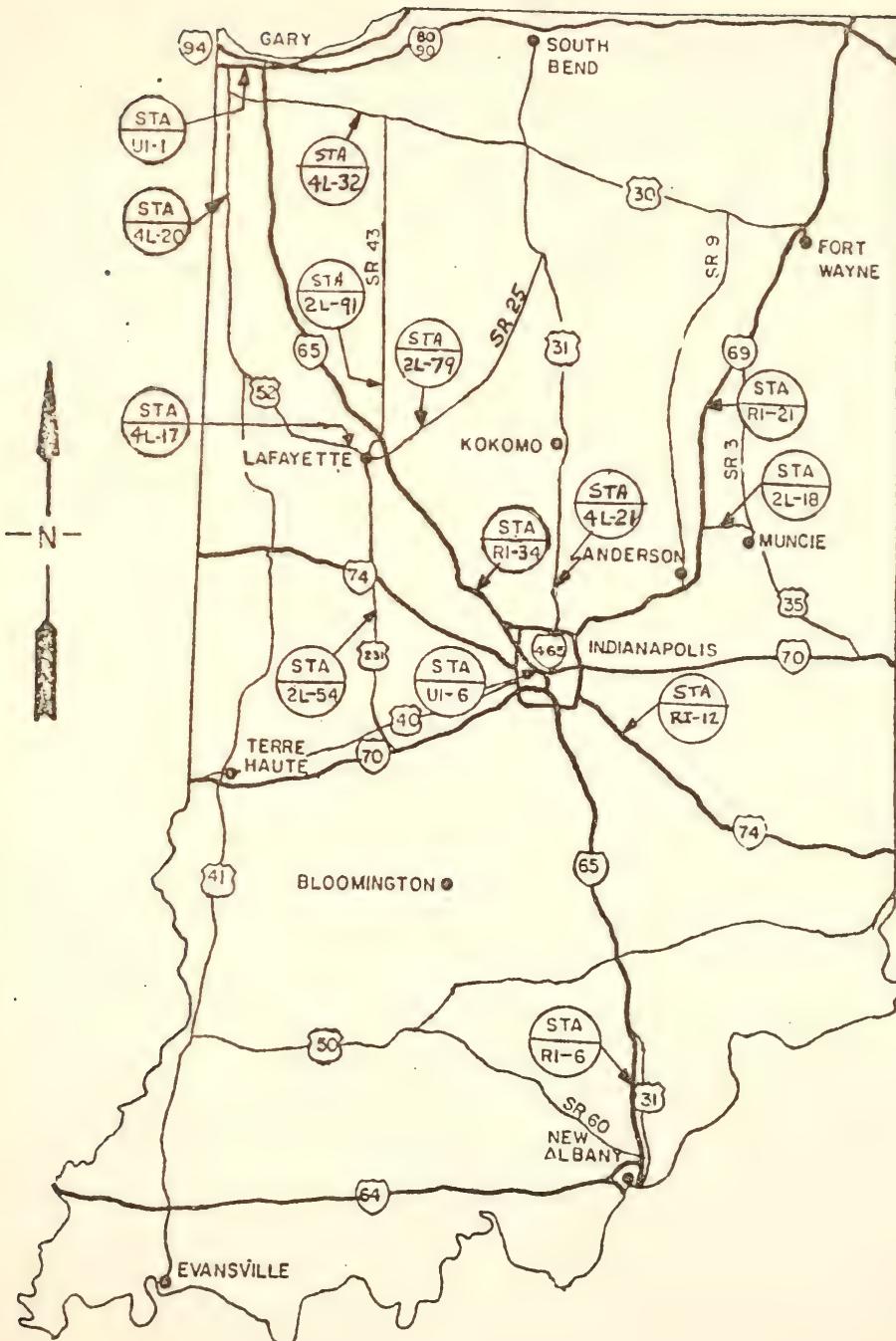


FIGURE I LOCATIONS OF SPEED-STUDY STATIONS

Table 2: Average Speed MPH

	Interstate Urban	Interstate Rural	Other Rural 4-Lane	Other Rural 2-Lane	All
Passenger Cars:					
Indiana	59.3	57.7	56.5	58.8	57.9
Non-Indiana	60.5	58.7	56.9	58.4	59.3
All Passenger Cars	59.8	57.9	56.6	58.7	58.3
85 Percentile (all)	62.8	63.6	61.9	60.9	62.5
15 Percentile (all)	54.1	54.8	53.0	51.5	53.2
Trucks:					
Less than 5000 lbs.	58.1	56.9	55.2	58.1	56.9
5000 lbs. or more	58.4	57.1	55.1	56.4	56.9
All Trucks	58.2	56.9	55.2	57.0	56.9
85 Percentile (all)	60.7	61.8	61.4	59.8	61.1
15 Percentile (all)	52.1	53.7	51.8	49.7	51.4
All Vehicles:					
Average	59.1	57.5	56.0	58.0	57.7
85 Percentile	62.1	62.9	61.7	60.4	62.0
15 Percentile	53.1	54.3	52.4	50.7	52.5

Table 3: Percent of Vehicles Exceeding 55 MPH

	Interstate Urban	Interstate Rural	Other Rural 4-Lane	Other Rural 2-Lane	All
Passenger Cars:					
Indiana	79.0	82.4	70.6	59.5	71.3
Non-Indiana	80.2	86.7	78.2	62.0	81.0
All Passenger Cars	79.4	84.1	72.4	59.7	73.7
Trucks:					
Less than 5000 lbs.	71.6	76.9	65.7	46.7	62.8
5000 lbs or more	62.9	75.0	62.5	49.1	64.3
All Trucks	66.1	75.5	63.8	47.9	63.7
All Vehicles:	74.1	80.6	68.7	55.0	69.6

Table 4: Percent of Vehicles Exceeding 60 MPH

	Interstate Urban	Other Rural Rural 4-Lane	Rural 2-Lane	All
Passenger Cars:				
Indiana	32.6	36.8	27.0	17.9
Non-Indiana	27.9	46.3	30.2	23.0
All Passenger Cars	31.2	40.5	27.7	18.4
Trucks:				
Less than 5000 lbs.	29.5	30.2	24.9	15.8
5000 lbs. or more	15.6	27.8	23.5	11.9
All Trucks	20.7	28.5	24.0	14.0
All Vehicles:	27.0	35.5	26.1	16.6

Table 5: Percent of Vehicles Exceeding 65 MPH

	Interstate Urban	Other Rural Rural 4-Lane	Rural 2-Lane	All
Passenger Cars:				
Indiana	6.9	8.2	4.4	3.5
Non-Indiana	5.0	10.6	5.3	2.0
All Passenger Cars	6.3	9.1	4.6	3.3
Trucks:				
Less than 5000 lbs.	6.8	5.4	3.8	2.6
5000 lbs. or more	1.5	2.9	2.8	1.4
All Trucks	3.5	3.6	3.0	2.1
All Vehicles:	5.2	6.8	3.9	2.8

The results of this study and similar studies conducted since 1974 are tabulated in Table 6. The speeds given in the table for 1974 were obtained from Traffic Speed Report No. 92. The speed values for 1975 to 1978 were calculated from the tables given in the respective appendices of the reports (nos. 94, 98, 102, 106) for the 14 Locations used in this study. The 15th and 85th percentile speed values for 1979 through 1984 were calculated by interpolation over 1 mph speed intervals from the raw data.

Table 6. Summary of Spot Speed Observations on Indiana Highways
(Free-Moving Vehicles on Level, Tangent Sections)

	Passenger Cars				Trucks				Combined		
	Non-										
	Ind.	Ind.	A11	A11	Lgt.	Hvy.	A11	A11	A11	Mean	85%
2-Lane:											
1974	56.8	55.9	56.7	61.8	55.3	54.5	54.8	60.3	54.8	61.4	
1975	57.2	57.4	57.8	62.9	57.5	56.2	55.7	61.3	56.9	62.2	
1976	56.0	57.3	56.1	61.5	54.9	55.0	54.9	60.6	54.9	60.9	
1977	56.7	56.2	56.7	62.3	56.3	54.7	54.6	60.4	55.4	60.9	
1978	56.8	57.1	56.8	61.9	55.4	55.9	55.2	61.1	55.7	61.3	
1979	56.4	56.0	56.4	60.5	55.1	55.6	55.6	61.1	55.4	61.4	
1980	55.2	58.4	55.3	59.7	55.1	54.9	54.9	60.2	55.0	60.2	
1981	55.7	56.2	55.8	60.2	55.0	54.7	54.8	59.9	54.8	59.9	
1982	55.8	57.2	56.0	60.2	54.8	54.9	54.9	59.7	54.9	60.0	
1983	56.3	55.8	56.2	60.7	55.0	54.6	54.8	59.3	55.7	60.2	
1984	58.8	58.4	58.7	60.9	58.1	56.4	57.0	59.8	58.0	60.4	
4-Lane:											
1974	58.0	57.9	58.0	63.1	56.8	54.4	55.3	61.9	55.3	62.7	
1975	57.6	58.1	57.7	62.8	56.4	55.9	56.1	62.3	56.1	62.3	
1976	57.0	57.2	57.1	62.3	55.5	56.6	56.6	62.2	54.7	61.8	
1977	57.7	58.7	57.9	62.9	56.0	57.3	56.2	61.9	56.9	62.1	
1978	57.5	57.8	57.5	62.5	56.0	57.7	56.9	61.5	56.9	62.1	
1979	56.3	57.0	56.5	61.1	55.7	56.4	56.5	62.3	56.1	61.6	
1980	55.9	57.4	56.2	60.5	55.3	56.4	55.9	61.4	55.9	60.5	
1981	56.5	58.0	56.8	61.1	56.3	56.1	56.2	61.5	56.2	61.0	
1982	56.6	57.6	56.8	61.1	55.1	55.7	55.4	61.1	55.4	61.8	
1983	57.4	58.0	57.5	61.7	56.4	56.4	56.4	61.7	57.1	61.4	
1984	56.5	56.9	56.6	61.9	55.2	55.1	55.2	61.4	56.0	61.7	
Rural Interstate:											
1974	58.3	59.3	58.7	62.6	56.7	56.4	56.5	61.0	56.5	62.1	
1975	59.7	60.2	59.9	64.2	58.2	59.3	57.5	62.6	58.9	62.1	
1976	59.0	60.3	59.4	63.0	58.5	58.9	58.0	62.6	58.3	62.7	
1977	60.4	60.5	60.4	65.4	58.4	59.7	57.3	63.9	59.3	64.2	
1978	59.2	60.3	59.7	63.7	58.9	59.8	59.8	64.8	59.5	64.6	
1979	58.4	58.9	58.6	62.4	57.6	59.3	59.5	64.5	58.7	64.0	
1980	58.4	59.7	58.8	62.3	57.6	57.2	59.8	62.6	58.3	62.5	
1981	57.9	59.6	58.6	62.3	57.4	58.8	58.4	62.9	58.4	62.4	
1982	58.9	59.5	58.9	62.2	58.0	58.2	58.1	62.7	58.1	62.1	
1983	59.2	60.0	59.5	63.1	58.5	58.7	58.6	62.8	59.2	62.8	
1984	57.7	58.7	57.9	63.6	56.9	57.1	56.9	61.8	57.5	62.9	
Urban Interstate:											
1981	57.7	58.5	57.9	62.2	57.2	56.5	56.8	61.7	57.5	61.5	
1982	57.7	57.8	57.7	61.9	56.8	55.7	56.1	61.2	57.0	62.1	
1983	58.7	58.2	58.6	61.9	57.8	57.2	57.4	61.4	58.2	61.6	
1984	59.3	60.5	59.8	62.8	58.1	58.4	58.2	60.7	59.1	62.1	

Figure 2 represents a graphic presentation of the results from this and similar studies since 1973. The speed values plotted in Figure 2 were obtained in the same way as those in Table 6, except for the values from 1973 and 1974 which were obtained from a similar graph in the Traffic Speed Report No. 92. This was done to be consistent with the annual traffic speed reports up to 1974. Only data collected at the 12 rural stations were used to calculate the values given in Figure 2.

Table 7 shows the average speeds for all passenger cars, trucks of more than 5000 lbs. and trucks less than 5000 lbs. with and without the two urban interstate stations. The urban interstates were first monitored in 1975.

Table 7. Average Speeds (mph)

Year	Passenger Cars		Trucks Less Than 5000 lbs.		Trucks 5000 lbs. or More	
	12 Rural Stations	All 14 Stations	12 Rural Stations	All 14 Stations	12 Rural Stations	All 14 Stations
1975	58.5	58.7	57.2	57.4	57.8	57.5
1976	57.5	57.6	56.3	56.4	56.4	56.6
1977	58.2	58.2	57.7	57.8	57.0	57.1
1978	58.2	58.2	57.9	57.8	56.6	56.6
1979	57.1	61.8	57.2	57.0	56.0	56.1
1980	56.7	56.8	56.8	56.6	56.0	56.1
1981	57.0	57.1	56.7	56.3	56.1	56.6
1982	57.2	57.3	55.8	55.9	56.4	56.3
1983	57.8	57.9	56.5	56.6	56.7	56.8
1984	57.7	58.3	56.7	56.9	56.3	56.9

4. SUMMARY

All three vehicle categories: passenger cars, light trucks and heavy trucks, showed speed increases on Indiana 2-lane highways and urban interstates and decreases on 4-lane highways and rural interstates.

The average speed of passenger cars on all types of highways in 1984 increased 0.4 mph from 1983. 2-lane highways showed the largest increase at 2.5 mph, while rural interstates had the largest decrease with a 1.6 mph difference.

The average speed of light trucks (trucks less than 5000 lbs.) increased by 0.3 mph. 2-lane highways showed the largest increase at 3.1 mph, while rural interstates had the largest decrease with a 1.6 mph difference.

The average speed for heavy trucks (5000 lbs. or more) increased slightly, by 0.3 mph from 1983. 2-lane highways showed the largest increase at 1.8 mph, while rural interstates had the largest decrease with a 1.6 mph difference.

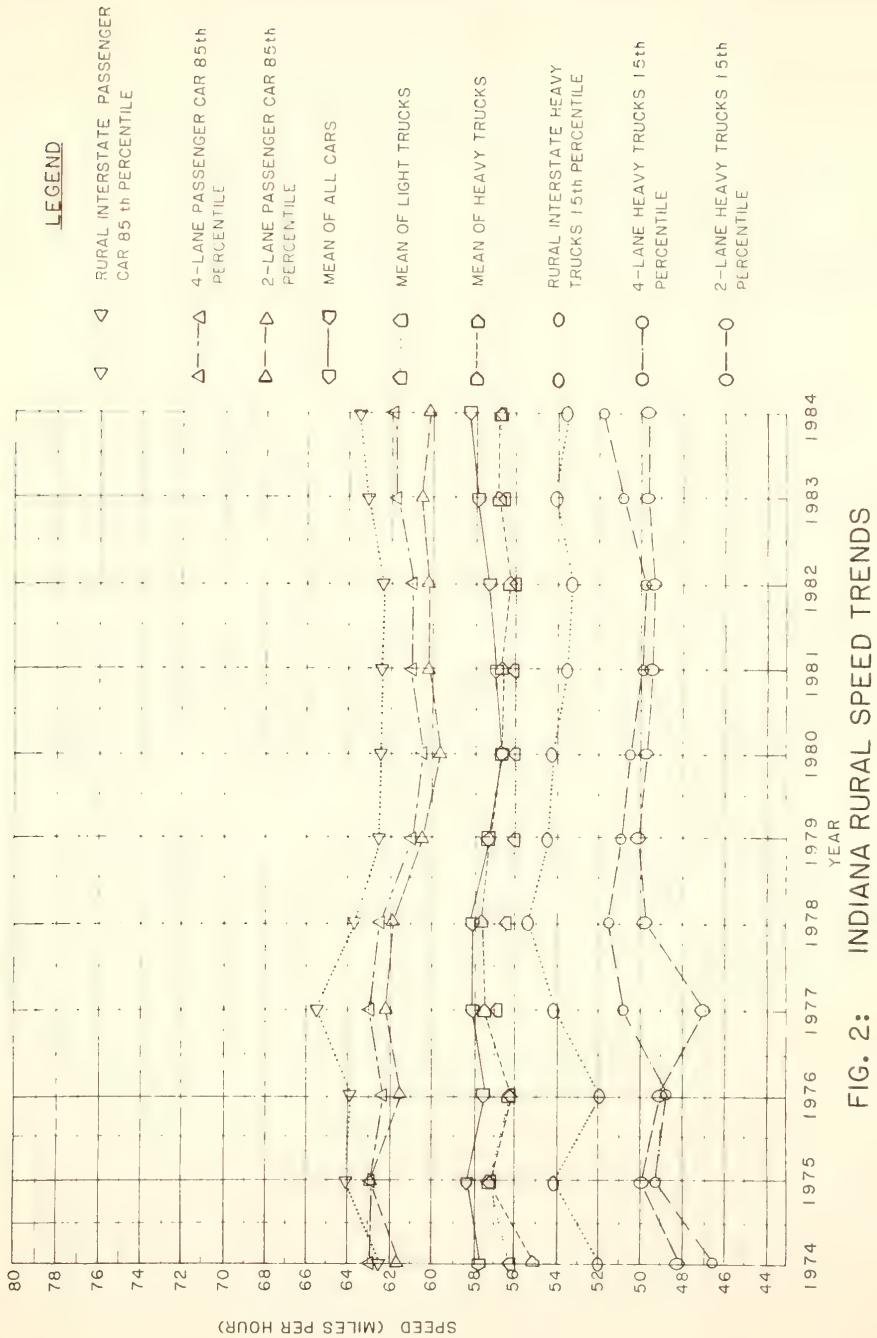


FIG. 2: INDIANA RURAL SPEED TRENDS

The speed changes are illustrated by Figure 2. The average speeds of cars, light and heavy trucks on rural highways have remained virtually the same since 1979. The mean speeds dropped sharply from the summer of 1973 to the summer of 1974. They increased a little in 1975 and have remained fairly constant up to 1978, except for a slight drop in 1976. A slight reduction in mean speeds occurred in 1979 and they have increased slightly since then. All of the 85th percentile speed categories in Figure 2 showed an increase for 1984. Both the passenger car and light truck 15th percentile speeds have also increased. On the other hand, the 15th percentile heavy trucks showed slight decreases from the previous year.

Since the mean speeds are almost the same for the 12 rural stations (Table 7) as for the 14 urban and rural stations, there is no reason to expect that the results in Figure 2 would change significantly if the urban interstate stations were included in the analysis.

The 85th percentile speeds of cars on rural highways decreased sharply between 1973 and 1974, due to the implementation of the 55 mph speed limit. They increased a little in 1975, but remained fairly constant until 1978, except for an increase of 1.5 mph in the 85th percentile speed of cars on rural interstates in 1977. The 85th percentile speed has remained essentially the same on the rural interstates from 1979 to 1984. For the other rural highways it showed a slight reduction in 1980 and a slight increase towards 1983-4 (Figure 2).

The 15th percentile speeds of heavy trucks on rural highways have shown no marked change since 1974. The 15th percentile speed of heavy trucks on rural interstates is basically the same as in 1983, but the 15th percentile speed of heavy trucks on the other rural highways increased a little. There seems to be a slight downward trend in the 15th percentile speed of heavy trucks on rural highways from 1978 to 1982, although in 1983 there was an increase back to the 1980 15th percentile speed levels (Figure 2) and 1984 brought these numbers back down to the 1982 levels.

The difference between the 85th percentile speeds of passenger cars and the 15th percentile of heavy trucks on all rural highways was reduced sharply from 1973 to 1974. Since then it has remained fairly constant up to 1984, with the smallest and most constant differences from 1978 to 1984.

APPENDIX A

Speed Data (Tables A1 to A19)

TABLE A1 : SPEED DATA

STATION: UT-01 HIGHWAY: I - 80/94 LOCATION: FIRST BRIDGE EAST OF BURR STREET
 NO. OF LANES: 6 TYPE OF SURFACE: ASPHALT

THIS OBSERVATION DATE: 8/14/84 TIME: 10:05 AM
 DATE: 8/19/83 TIME: 10:00 AM

WEATHER: BRIGHT, CLEAR

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 8/19/83
 TIME: 10:00 AM

PASSENGER CARS

OBSERVATION	LAST	INDIANA		NON-INDIANA		LAST	ENT	PRE-S-	PRE-S-	LAST	ENT	PRE-S-	PRE-S-
		ALL	LAST	ENT	LAST								
NUMBER OF VEHICLES	227	330	126	179	101	151	173	307	55	92	118	215	
AVE. SPEED (MPH)	58.00	57.26	58.10	56.98	57.90	57.60	56.50	56.39	56.30	57.08	56.60	56.10	
STANDARD DEVIATION	3.352	4.335	3.302	4.264	3.427	4.408	4.030	4.512	4.358	4.820	3.883	4.352	

TRUCKS

PERCENT OF VEHICLES	24 MPH	0.		0.		0.		0.		0.		0.	
		ALL	LAST	ENT	LAST	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
44 MPH	0.	1.2	0.	0.6	0.	2.0	0.	0.6	0.7	0.	1.1	0.8	0.5
49 MPH	0.4	3.6	0.8	2.8	0.	4.6	0.	5.2	7.2	3.6	3.3	5.9	8.8
54 MPH	12.8	21.8	11.1	25.1	14.9	17.9	24.9	29.6	32.7	25.0	21.2	31.6	
TRAVELING LESS THAN OR EQUAL TO	59 MPH	68.7	70.9	65.9	75.4	72.3	65.6	83.2	76.2	81.8	69.6	83.9	79.1
64 MPH	96.0	95.2	97.6	96.1	94.1	94.0	99.4	97.1	98.2	94.6	100.0	98.1	
69 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.7	98.2	98.9	100.0	100.0	
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

DIRECTION: EB

N OF VEHICLES	118	166	48	76	70	90	82	153	28	54	54	99
AVERAGE SPEED	58.00	56.83	57.90	56.55	58.20	57.06	56.40	56.29	56.60	56.89	56.20	55.97

DIRECTION: WB

N OF VEHICLES	109	164	78	103	31	61	91	154	27	38	64	116
AVERAGE SPEED	58.00	57.71	58.20	57.30	57.30	58.39	56.60	56.49	56.00	57.34	56.90	56.22

TABLE A2 : SPEED DATA

STATION: UI-06 HIGHWAY: I - 65 LOCATION: EAST END WHITE RIVER BRIDGE
 NO. OF LANES: 6 TYPE OF SURFACE: CONCRETE
 THIS OBSERVATION
 DATE: 7/31/84
 TIME: 10:09 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
 DATE: 8/18/83
 TIME: 10:50 AM

WEATHER: CLEAR

PASSENGER CARS										TRUCKS						
OBSERVATION	LAST	ENT	LAST	ENT	PRESS-	LAST	ENT	PRESS-	LAST	ENT	PRESS-	LAST	ENT	PRESS-	LAST	
NUMBER OF VEHICLES	282	445	261	374	21	71	118	209	66	98	52	111				
AVE. SPEED (MPH)	59.10	59.79	59.00	59.71	59.50	60.24	58.80	57.92	59.00	59.11	58.50	56.86				
STANDARD DEVIATION	4.362	4.215	4.377	4.241	4.250	4.072	3.916	4.555	3.861	4.797	4.007	4.069				
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.				
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.				
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.				
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.				
PERCENT OF	44 MPH	0.7	0.	0.8	0.	0.	0.	0.	1.0	0.	1.0	0.				
49 MPH	2.1	0.4	2.3	0.5	0.	0.	0.	0.8	3.8	0.	2.0	1.9				
VEHICLES	54 MPH	11.3	9.2	10.7	9.9	19.0	5.6	13.6	19.6	9.1	13.3	19.2				
TRAVELING LESS THAN	59 MPH	55.0	48.8	56.3	48.4	38.1	50.7	57.6	64.6	59.1	55.1	55.8				
OR	64 MPH	91.5	87.2	92.0	87.7	85.7	84.5	96.6	93.3	95.5	88.8	98.1				
EQUAL TO	74 MPH	98.9	99.1	98.9	99.2	100.0	98.6	99.2	99.0	98.5	98.0	100.0				
DIRECTION: EB	79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
N OF VEHICLES	144	193	137	162	7	31	56	111	30	54	26	57				
AVERAGE SPEED	59.30	60.16	59.30	60.04	58.30	60.81	58.40	58.56	58.30	59.39	58.60	57.77				
DIRECTION: WB	138	252	124	212	14	40	62	98	36	44	26	54				
N OF VEHICLES	138	252	124	212	14	40	62	98	36	44	26	54				
AVERAGE SPEED	58.90	59.51	58.70	59.46	60.10	59.80	59.00	57.19	59.50	58.77	58.40	55.91				

TABLE A3 : SPEED DATA

STATION: RI-06 HIGHWAY: I - 65 LOCATION: 7.5 MILES NORTH OF SR 160
 NO. OF LANES: 4 TYPE OF SURFACE: BLACK TOP WEATHER: CLEAR

THIS OBSERVATION DATE: 5/9/84 TIME: 9:45 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 8/9/83 TIME: 9:13 AM

PASSENGER CARS

OBSERVATION	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.			>5000 LBS.		
	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT
NUMBER OF VEHICLES	251	276	127	160	124	116	169	211	62	44	107	167						
AVE. SPEED (MPH)	59.60	60.29	59.20	59.41	60.00	61.52	59.00	58.31	59.10	59.50	59.00	58.00						
STANDARD DEVIATION	4.014	4.628	4.013	4.319	3.981	4.776	4.332	3.928	4.570	4.061	4.210	3.843						
24 MPH	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*						
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
PERCENT OF VEHICLE TRAVELING LESS THAN OR EQUAL TO	44 MPH	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*	0.*						
	49 MPH	0.8	1.1	0.8	1.9	0.8	0.	0.	2.4	0.5	3.2	0.	1.9	0.6				
	54 MPH	7.6	8.7	9.4	11.9	5.6	4.3	12.4	13.7	9.1	10.3	15.0						
	59 MPH	49.4	43.1	55.1	51.9	43.5	31.0	52.1	64.0	48.4	54.5	66.5						
	64 MPH	91.2	87.7	93.7	90.0	88.7	84.5	93.5	92.9	91.9	81.8	94.4	95.8					
	69 MPH	97.6	96.7	98.4	98.8	96.8	94.0	99.4	98.6	98.4	100.0	100.0	98.2					
	74 MPH	99.6	98.9	99.2	100.0	100.0	97.4	100.0	100.0	100.0	100.0	100.0						
	79 MPH	100.0	99.6	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	100.0						
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						

DIRECTION: NB

N OF VEHICLES 124 118 56 68 62 86 102 31 25 55 77

AVERAGE SPEED 59.20 60.91 59.00 59.80 59.40 61.90 59.10 58.66 58.50 59.68 59.40 58.32

DIRECTION: SB

N OF VEHICLES 127 158 71 104 56 54 83 109 31 19 52 90

AVERAGE SPEED 60.00 59.84 59.30 59.19 60.90 61.07 58.90 57.99 59.60 59.26 58.60 57.72

TABLE A4 : SPEED DATA

STATION: RI-12 HIGHWAY: I - 74 LOCATION: 0.1 MILES WEST OF MILEPOST 109
 NO. OF LANES: 4 THIS OBSERVATION
 DATE: 6/5/84
 TIME: 10:47 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

WEATHER: SLIGHTLY OVERCAST

DATE: 8/16/83
 TIME: 11:30 AM

LOCATION: 0.1 MILES WEST OF MILEPOST 109

PASSENGER CARS

OBSERVATION	LAST	PRE-S-		PRES-		PRE-S-		PRES-		TRUCKS	
		ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	ALL	<5000 LBS.	ENT	LAST	ENT
NUMBER OF VEHICLES	250	299	175	212	75	87	150	205	62	76	88
AVE. SPEED (MPH)	59.20	59.77	58.90	59.48	59.80	60.48	58.60	57.63	59.10	57.75	58.30
STANDARD DEVIATION	3.840	4.716	3.686	4.593	4.138	4.958	4.027	3.747	3.954	3.637	4.066

24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PERCENT	44 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
OF	49 MPH	0.4	0.7	0.	0.5	1.3	1.1	2.0	1.5	0.	1.3
VEHICLES	54 MPH	10.8	11.0	10.9	11.3	10.7	10.3	16.0	17.1	9.7	13.2
TRAVELING	59 MPH	56.8	51.2	61.1	54.7	46.7	42.5	58.7	68.8	56.5	69.7
LESS THAN	64 MPH	90.0	86.6	92.0	87.7	85.3	83.9	93.3	96.1	91.9	96.1
OR	69 MPH	99.2	96.7	98.9	96.2	100.0	97.7	99.3	100.0	98.4	100.0
EQUAL TO	74 MPH	100.0	99.3	100.0	99.5	100.0	98.9	100.0	100.0	100.0	100.0
DIRECTION: EB	79 MPH	130.0	99.7	100.0	100.0	100.0	98.9	100.0	100.0	100.0	100.0
N OF VEHICLES	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AVERAGE SPEED	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION: WB											
N OF VEHICLES	123	142	79	99	44	43	77	107	29	36	48
AVERAGE SPEED	60.00	59.41	59.60	58.85	60.70	60.70	59.10	57.15	58.80	57.64	59.30

58.38

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TABLE A5 : SPEED DATA

STATION: RI-21

HIGHWAY: I - 69

LOCATION: 1.6 MILES SOUTH OF SR 18

NO. OF LANES: 4

TYPE OF SURFACE: BLACK TOP

WEATHER: CLEAR

THIS OBSERVATION

DATE: 5/16/84
TIME: 1:36 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 8/19/83
TIME: 3:25 PM

PASSENGER CARS

OBSERVATION	LAST	PRES-			PRES-			PRES-			PRES-			TRUCKS		
		ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.	ALL	<5000 LBS.	>5000 LBS.	ALL	<5000 LBS.	>5000 LBS.	ALL	<5000 LBS.	>5000 LBS.
NUMBER OF VEHICLES	277	281	187	159	90	122	122	179	62	32	60	147	147	147	147	147
AVE. SPEED (MPH)	59.40	59.44	59.20	59.48	59.60	59.39	57.60	58.59	57.30	57.47	58.00	58.83	58.83	58.83	58.83	58.83
STANDARD DEVIATION	4.147	4.193	4.431	4.055	3.496	4.384	3.847	4.134	3.772	4.024	3.923	4.130	4.130	4.130	4.130	4.130
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
PERCENT OF VEHICLES	44 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
49 MPH	2.2	1.1	3.2	1.9	0.	0.	0.	1.6	2.2	1.6	3.1	1.7	2.0	2.0	2.0	2.0
54 MPH	9.4	10.0	10.7	6.9	6.7	13.9	20.5	14.0	24.2	18.8	16.7	12.9	12.9	12.9	12.9	12.9
TRAVELING LESS THAN OR EQUAL TO	59 MPH	53.8	54.1	54.5	52.8	52.2	55.7	70.5	59.8	72.6	65.6	68.3	58.5	58.5	58.5	58.5
64 MPH	91.0	89.3	90.4	89.3	92.2	89.3	95.9	92.7	96.8	96.9	95.0	91.8	91.8	91.8	91.8	91.8
69 MPH	98.9	97.9	98.4	98.1	100.0	97.5	100.0	98.9	100.0	100.0	100.0	100.0	98.6	98.6	98.6	98.6
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DIRECTION: NB

N OF VEHICLES 140 161 90 91 50 70 60 83 32 16 28 67

AVERAGE SPEED 59.70 59.17 59.50 59.07 60.10 59.30 57.90 58.45 57.30 57.75 58.60 58.61

DIRECTION: SB

N OF VEHICLES 137 120 97 68 40 52 62 96 30 16 32 80

AVERAGE SPEED 59.00 59.81 59.00 60.03 59.00 59.52 57.30 58.71 57.30 57.19 57.40 59.01

TABLE A6 : SPEED DATA

STATION: RI-34

HIGHWAY: I - 65

LOCATION: 2.5 MILES SOUTH OF FIRST BRIDGE

SOUTH OF SR 39

NO. OF LANES: 4

TYPE OF SURFACE: BLACK TOP

WEATHER: CLEAR

THIS OBSERVATION

DATE: 7/24/84

TIME: 11:31 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 7/13/83

TIME: 10:02 AM

		PASSENGER CARS						TRUCKS											
		ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.			>5000 LBS.		
		PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT			
OBSERVATION	LAST																		
NUMBER OF VEHICLES	273	371	169	214	104	157	156	266	69	90	87	87	176						
AVE. SPEED (MPH)	60.00	59.68	59.70	59.00	60.50	60.62	59.00	58.23	58.70	58.64	59.30	58.01							
STANDARD DEVIATION	4.365	4.531	4.381	4.439	4.311	4.500	4.763	4.769	5.129	5.062	4.464	4.612							
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
39 MPH	0.4	0.	0.	0.	0.	1.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
PERCENT OF VEHICLE	44 MPH	0.4	0.	0.	0.	1.0	0.	0.	0.	0.	0.8	0.	1.1	0.	0.	0.6			
49 MPH	1.5	1.1	1.8	1.4	1.0	0.6	1.9	3.8	3.8	20.3	15.9	20.0	10.3	20.5					
54 MPH	7.7	10.8	10.1	14.0	14.0	6.4	12.8	55.8	57.9	52.2	51.1	58.6	61.4						
TRAVELING LESS THAN OR EQUAL TO	59 MPH	46.9	53.1	49.1	60.3	43.3	43.3	89.7	93.2	92.8	92.2	87.4	93.8						
64 MPH	86.4	87.6	88.8	89.3	82.7	85.4	89.7	98.1	98.1	98.6	97.8	97.7	99.4						
69 MPH	98.5	98.1	98.2	98.1	99.0	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
74 MPH	99.6	99.5	100.0	100.0	99.0	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
79 MPH	100.0	99.7	100.0	100.0	100.0	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
DIRECTION: NB	N OF VEHICLES	134	196	77	116	57	80	82	149	35	47	47	102						
AVERAGE SPEED	60.20	59.41	60.20	58.78	60.30	60.33	59.30	57.48	60.10	58.36	58.80	57.07	74						
DIRECTION: SB	N OF VEHICLES	139	175	92	98	47	77	74	117	34	43	40	59.31						
AVERAGE SPEED	59.80	59.93	59.30	59.24	60.80	60.92	58.70	59.18	57.20	58.95	59.90	57.07							

TABLE A7 : SPEED DATA

STATION: 4L-17 HIGHWAY: US 52 LOCATION: 150' EAST OF CR 475W (TIPPECANOE CO.)
 NO. OF LANES: 4 TYPE OF SURFACE: BLACK TOP WEATHER: CLOUDY
 THIS OBSERVATION
 DATE: 5/22/84
 TIME: 8:07 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
 DATE: 6/28/83
 TIME: 9:02 AM

OBSERVATION	PASSENGER CARS						TRUCKS												
	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.			>5000 LBS.			
	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	
NUMBER OF VEHICLES	284	287	253	31	34	136	167	86	109	50	50	58							
AVE. SPEED (MPH)	56.20	56.98	56.20	56.98	56.10	56.94	56.10	56.71	55.50	56.95	57.00	56.26							
STANDARD DEVIATION	4.813	4.185	4.884	4.222	4.269	3.954	5.599	5.491	5.085	5.003	6.328	6.329							
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
PERCENT OF	44 MPH	1.8	0.3	2.0	0.4	0.	0.	0.7	1.2	1.2	0.9	0.	1.7						
49 MPH	8.8	5.6	9.1	5.5	6.5	5.9	13.2	2.2	1.8	2.3	1.8	2.0	1.7						
VEHICLES	54 MPH	32.4	24.7	32.4	24.5	32.3	26.5	36.0	26.3	38.4	27.5	32.0	24.1						
TRAVELING	59 MPH	77.5	72.8	77.9	72.3	74.2	76.5	72.8	71.3	83.7	68.8	54.0	75.9						
LESS THAN	64 MPH	95.1	96.9	94.5	96.4	100.0	100.0	94.9	97.0	96.5	98.2	92.0	94.8						
OR	69 MPH	99.6	99.7	99.6	99.6	100.0	100.0	100.0	98.8	100.0	100.0	100.0	96.6						
EQUAL TO	74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0	100.0	98.3						
	79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0	100.0	98.3						
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0	100.0	98.3						
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0	100.0	98.3						
DIRECTION: EB	N OF VEHICLES	137	162	124	148	13	14	72	80	48	52	24	28						
AVERAGE SPEED	57.60	57.44	57.70	57.45	57.30	57.29	56.70	56.85	56.10	57.65	58.00	55.36							
DIRECTION: WB	N OF VEHICLES	147	125	129	105	18	20	64	87	38	57	26	30						
AVERAGE SPEED	54.90	56.38	54.80	56.31	55.20	56.70	55.40	56.59	54.80	56.32	56.10	57.10							

TABLE A8 : SPEED DATA

STATION: 4L-20 HIGHWAY: US 41 LOCATION: 1 MILES NORTH OF SR 2
 NO. OF LANES: 4 TYPE OF SURFACE: BLACK TOP WEATHER: CLEAR
 THIS OBSERVATION DATE: 5/23/84
 TIME: 10:20 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
 DATE: 8/15/83
 TIME: 12:01 PM

PASSENGER CARS										TRUCKS					
OBSERVATION	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.		
	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-	PRES-
NUMBER OF VEHICLES	262	260	188	187	74	73	138	204	75	84	63	120			
AVE. SPEED (MPH)	58.70	57.55	58.70	57.36	58.80	58.04	56.80	55.74	57.20	56.80	56.20	55.00			
STANDARD DEVIATION	4.926	5.406	5.028	5.843	4.689	4.074	6.573	6.391	5.885	5.049	7.321	7.110			
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.			
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.7	0.5	0.	0.	1.6	0.8		
39 MPH	0.	0.	0.	0.	0.	0.	0.	1.4	2.0	0.	0.	3.2	3.3		
PERCENT OF VEHICLES	44 MPH	0.	1.5	0.	2.1	0.	0.	5.8	5.9	4.0	2.4	7.9	8.3		
49 MPH	2.7	6.5	3.2	8.6	1.4	1.4	12.3	13.7	9.3	6.0	15.9	19.2			
54 MPH	18.3	22.3	19.7	25.7	14.9	13.7	26.1	37.3	22.7	29.8	30.2	42.5			
TRAVELING LESS THAN OR EQUAL TO	59 MPH	59.9	66.9	59.0	65.8	62.2	69.9	65.9	66.2	65.3	60.7	66.7	70.0		
64 MPH	88.2	92.3	87.8	92.5	89.2	91.8	90.6	97.1	92.0	97.6	88.9	96.7			
69 MPH	98.1	98.5	98.4	98.4	97.3	98.6	98.6	100.0	98.7	100.0	98.4	100.0			
74 MPH	99.6	99.2	99.5	98.9	100.0	100.0	99.3	100.0	98.7	100.0	100.0	100.0			
79 MPH	100.0	99.6	100.0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
DIRECTION: NB	N OF VEHICLE	134	123	94	90	40	33	66	95	34	41	32	54		
AVERAGE SPEED	58.80	55.89	59.10	55.44	58.00	57.12	55.20	52.75	57.70	55.39	52.50	50.74			
DIRECTION: SB	N OF VEHICLE	128	137	94	97	34	40	72	109	41	43	31	66		
AVERAGE SPEED	58.60	59.04	58.20	59.14	59.70	58.80	58.20	58.35	56.80	58.14	60.10	58.48			

TABLE A9 : SPEED DATA

STATION: 4L-21 HIGHWAY: US 31 LOCATION: 1.1 MILES SOUTH OF SR 38
 NO. OF LANES: 4 TYPE OF SURFACE: BLACK TOP WEATHER: CLOUDY
 THIS OBSERVATION DATE: 5/29/84 TIME: 10:35 AM
 STANDARD DEVIATION 4.529 DATE: 8/5/83
 TIME: 9:58 AM

PASSENGER CARS										TRUCKS						
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	>5000 LBS.	
NUMBER OF VEHICLES	273		348		232		282		41		66		155		210	93
AVE. SPEED (MPH)	57.40		58.59		57.40		58.41		57.70		59.35		55.80		56.19	56.20
STANDARD DEVIATION	4.529		4.616		4.615		4.708		4.051		4.149		4.370		4.814	4.708
24 MPH	0.		0.		0.		0.		0.		0.		0.		0.	0.
29 MPH	0.		0.		0.		0.		0.		0.		0.		0.	0.
34 MPH	0.		0.		0.		0.		0.		0.		0.		0.	0.
39 MPH	0.		0.		0.		0.		0.		0.		0.		0.	0.
PERCENT OF VEHICLES	44 MPH	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.0
54 MPH	2.9	3.2	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	8.2
59 MPH	25.6	16.4	26.3	17.7	22.0	10.6	39.4	32.4	32.4	32.4	38.7	28.6	40.3	36.7		
69.2 MPH	69.2	56.0	70.3	57.4	63.4	50.0	78.1	76.2	76.2	76.2	71.0	73.2	88.7	79.6		
95.2 MPH	95.2	91.1	95.3	92.6	95.1	84.8	98.1	96.2	96.2	96.2	97.8	94.6	98.4	98.0		
99.6 MPH	99.6	98.6	99.6	98.2	100.0	100.0	100.0	100.0	100.0	100.0	99.5	100.0	99.1	100.0	100.0	
EQUAL TO	74 MPH	99.6	99.7	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
79 MPH	99.6	100.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
DIRECTION: NB																
N OF VEHICLES	137	163	114	133	23	30	73	109	40	56	33	53				
AVERAGE SPEED	57.60	58.25	57.60	58.38	57.50	57.67	56.50	55.38	57.30	54.86	55.70	55.92				
DIRECTION: SB																
N OF VEHICLES	136	185	118	149	18	36	82	101	53	56	29	45				
AVERAGE SPEED	57.20	58.89	57.10	58.44	57.90	60.75	55.10	57.06	55.40	58.30	54.70	55.51				

TABLE A10 : SPEED DATA

STATION: 4L-32 HIGHWAY: US 30 LOCATION: 1.8 MILES EAST OF US 421 (CHANGED FOR CONSTRUCTION)

NO. OF LANES: 4 TYPE OF SURFACE: BLACK TOP

THIS OBSERVATION	LAST PREVIOUS OBSERVATION
DATE: 5/31/84	(SPEED REPORT NO. 117)
TIME: 10:15 AM	DATE: 8/2/83
	TIME: 11:55 AM

WEATHER: CLEAR

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 8/2/83 TIME: 11:55 AM

TABLE A11 : SPEED DATA

STATION: 2L-18

HIGHWAY: US 35

NO. OF LANES: 2

TYPE OF SURFACE: BLACK TOP

WEATHER: CLEAR

THIS OBSERVATION

DATE: 5/18/84

TIME: 10:55 AM

LOCATION: 2.5 MILES EAST OF I69

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

DATE: 8/11/83

TIME: 12:30 PM

PASSENGER CARS

OBSERVATION	LAST	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
		PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT
NUMBER OF VEHICLES	271	266	252	232	19	34	133	168	81	61	52	107	
AVE. SPEED (MPH)	55.80	56.62	55.80	56.50	54.90	57.47	55.10	55.26	55.50	55.07	54.50	55.37	
STANDARD DEVIATION	4.393	5.213	4.378	5.313	4.618	4.453	4.816	5.600	4.780	5.612	4.849	5.616	
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
PERCENT OF VEHICLES	44 MPH	0.7	1.1	0.8	1.3	0.	0.	0.8	1.2	0.	0.	1.9	1.9
54 MPH	7.0	7.5	6.7	8.2	10.5	2.9	12.0	1.5	4.8	1.2	3.3	1.9	5.6
TRAVELING LESS THAN OR EQUAL TO	59 MPH	80.4	72.9	80.6	74.1	78.9	64.7	78.2	75.6	76.5	72.1	80.8	77.6
64 MPH	97.4	94.0	97.2	94.0	100.0	94.1	98.5	96.4	97.5	98.4	100.0	95.3	
74 MPH	100.0	98.1	100.0	97.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DIRECTION: EB

N OF VEHICLES	135	117	122	102	13	15	65	100	38	34	27	66
AVERAGE SPEED	55.50	56.78	55.80	56.61	53.50	57.93	55.80	56.09	55.80	55.68	55.70	56.30
DIRECTION: WB												
N OF VEHICLES	136	149	130	130	6	19	68	68	43	27	25	41
AVERAGE SPEED	56.00	56.50	55.90	56.41	58.00	57.11	54.50	54.04	55.30	54.30	53.20	53.88

TABLE A12 : SPEED DATA

STATION: 2L-54 HIGHWAY: US 231 LOCATION: 1.1 MILES SOUTH OF SR234
 NO. OF LANES: 2 TYPE OF SURFACE: BLACK TOP WEATHER: SUNNY, HOT
 THIS OBSERVATION DATE: 7/23/84 TIME: 9:45 AM
 STANDARD DEVIATION 5.020 DATE: 8/12/83 TIME: 10:20 AM

LAST PREVIOUS OBSERVATION (SPEED) REPORT NO. 117)									
TRUCKS									
	PASSENGER CARS			TRUCKS					
	ALL INDIANA NON-INDIANA			ALL <5000 LBS. >5000 LBS.					
OBSERVATION	PRES-ENT	LAST	ENT	PRES-ENT	LAST	ENT	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	246	250	223	226	23	24	154	197	101
AVE. SPEED (MPH)	56.50	56.72	56.40	56.73	57.30	56.54	54.20	56.01	56.11
STANDARD DEVIATION	5.020	4.740	5.047	4.768	4.764	4.559	6.108	5.776	4.969
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.
34 MPH	0.	0.	0.	0.	0.	0.	0.5	0.	0.8
39 MPH	0.	0.	0.	0.	0.	0.	1.9	1.0	1.7
PERCENT OF	44 MPH	0.8	0.4	0.9	0.	4.2	8.4	2.5	5.7
49 MPH	4.9	5.6	5.4	5.8	0.	4.2	18.2	12.2	2.6
VEHICLES	54 MPH	37.8	32.4	39.0	32.7	26.1	29.2	46.1	36.5
TRAVELING LESS THAN OR EQUAL TO	59 MPH	73.6	76.0	74.0	75.7	69.6	79.2	82.5	76.6
64 MPH	93.9	95.6	94.2	95.1	91.3	100.0	97.4	92.4	98.0
69 MPH	98.8	99.2	98.7	99.1	100.0	100.0	98.7	99.5	99.0
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION: NB	N OF VEHICLES	124	128	113	118	11	10	76	91
AVERAGE SPEED	N OF VEHICLES	55.30	57.34	55.20	57.36	56.20	57.10	53.70	57.45
DIRECTION: SB	N OF VEHICLES	122	122	110	108	12	14	78	106
AVERAGE SPEED	N OF VEHICLES	57.70	56.07	57.60	56.06	58.40	56.14	54.70	54.76

TABLE A13 : SPEED DATA

STATION: 2L-79 NO. OF LANES: 2 HIGHWAY: SR 25 TYPE OF SU
THIS OBSERVATION DATE: 8/8/84 TIME: 8:25 AM

WEATHER: CLEAR
ICE: BLACK TOP

LOCATION: 0.7 MILES SOUTH OF AMERICUS

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 1117)
WEATHER: CLEAR

DATE: 8/8/84
TIME: 8:25 A

PASSENGER CARS										TRUCKS									
ALL					INDIANA					NON-INDIANA					<5000 LBS.				
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	
NUMBER OF VEHICLES	258	317	242	292	16	25	167	187	80	106	87	81							
AVERAGE SPEED (MPH)	55.60	55.79	55.50	55.79	56.00	55.84	54.70	54.03	55.30	54.53	54.20	53.37							
STANDARD DEVIATION	4.846	4.575	4.868	4.647	4.619	3.716	4.581	4.568	5.162	4.632	3.931	4.426							
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
39 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.							
PERCENT	44 MPH	1.6	0.9	1.7	1.0	0.	0.	0.	0.6	3.7	1.3	1.9	0.	6.2					
OF	49 MPH	8.1	7.3	8.3	7.5	6.3	4.0	9.6	15.0	7.5	11.3	11.5	19.8						
VEHICLES	54 MPH	39.9	39.4	40.1	39.4	37.5	40.0	47.3	52.4	41.3	49.1	52.9	56.8						
TRAVELING	59 MPH	84.9	82.0	84.7	81.8	87.5	84.0	87.4	90.9	85.0	88.7	89.7	93.8						
LESS THAN	64 MPH	95.7	96.2	95.9	95.9	93.8	100.0	97.6	98.9	96.3	98.1	98.9	100.0						
DR	69 MPH	98.8	99.4	98.8	99.3	100.0	99.4	99.5	98.8	99.1	100.0	100.0							
EQUAL TO	74 MPH	99.6	99.7	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
DIRECTION: NB	N OF VEHICLES	125	155	113	139	12	16	88	93	43	55	45	38						
AVERAGE SPEED	55.10	56.03	55.20	56.12	54.40	55.25	55.20	53.76	55.50	54.11	54.90	53.26							
DIRECTION: SB	N OF VEHICLES	133	162	129	153	4	9	79	94	37	51	42	43						
AVERAGE SPEED	56.00	55.56	55.80	55.48	60.80	56.89	54.20	54.29	55.10	54.98	53.50	53.47							

TABLE A14 : SPEED DATA

STATION: 2L-91 HIGHWAY: SR 43 LOCATION: 2.0 MILES SOUTH OF CHALMERS
 NO. OF LANES: 2 TYPE OF SURFACE: BLACK TOP WEATHER: CLEAR

THIS OBSERVATION DATE: 8/7/84 TIME: 8:30 AM
 LESS THAN 64 MPH EQUAL TO 74 MPH MORE THAN 84 MPH

DATE: 6/29/83 TIME: 8:57 AM
 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)

PASSENGER CARS

OBSERVATION	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.			>5000 LBS.		
	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	PRES-ENT	
NUMBER OF VEHICLES	256	281	244	264	12	17	168	179	91	93	77	86						
AVE. SPEED (MPH)	57.20	57.24	57.30	57.22	55.00	57.59	55.10	55.30	55.20	55.03	55.10	55.58						
STANDARD DEVIATION	5.545	4.889	5.546	4.761	5.274	6.746	4.739	4.872	5.222	5.076	4.129	4.654						
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
39 MPH	0.	0.4	0.	0.4	0.	0.	0.	0.	1.1	0.	1.1	0.					1.2	
PERCENT OF VEHICLES	44 MPH	1.6	1.1	1.6	1.1	0.	0.	1.2	1.7	1.1	1.1	1.3					2.3	
69 MPH	9.2	7.1	7.4	6.1	25.0	23.5	9.5	11.2	12.1	11.8	6.5	10.5						
TRAVELING OR EQUAL TO 74 MPH	54 MPH	27.7	23.5	27.5	23.1	33.3	29.4	45.2	37.4	49.5	43.0	40.3					31.4	
LESS THAN 64 MPH	59 MPH	71.1	73.3	70.5	74.2	83.3	58.8	87.5	79.3	83.5	75.3	92.2					83.7	
OR EQUAL TO 74 MPH	64 MPH	91.0	94.3	90.6	94.7	100.0	88.2	95.8	98.3	93.4	97.8	98.7					98.8	
DIRECTION: NB	N OF VEHICLES	116	140	109	128	7	12	93	95	46	52	47	43					
DIRECTION: SB	AVERAGE SPEED	56.80	56.73	56.90	56.77	55.40	56.33	55.30	55.04	54.70	54.69	55.80						

TRUCKS

OBSERVATION	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.			>5000 LBS.		
	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	PRES-ENT	
NUMBER OF VEHICLES	256	281	244	264	12	17	168	179	91	93	77	86						
AVE. SPEED (MPH)	57.20	57.24	57.30	57.22	55.00	57.59	55.10	55.30	55.20	55.03	55.10	55.58						
STANDARD DEVIATION	5.545	4.889	5.546	4.761	5.274	6.746	4.739	4.872	5.222	5.076	4.129	4.654						
24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
29 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
34 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.						
39 MPH	0.	0.4	0.	0.4	0.	0.	0.	0.	1.1	0.	1.1	0.					1.2	
PERCENT OF VEHICLES	44 MPH	1.6	1.1	1.6	1.1	0.	0.	1.2	1.7	1.1	1.1	1.3					2.3	
69 MPH	9.2	7.1	7.4	6.1	25.0	23.5	9.5	11.2	12.1	11.8	6.5	10.5						
TRAVELING OR EQUAL TO 74 MPH	54 MPH	27.7	23.5	27.5	23.1	33.3	29.4	45.2	37.4	49.5	43.0	40.3					31.4	
LESS THAN 64 MPH	59 MPH	71.1	73.3	70.5	74.2	83.3	58.8	87.5	79.3	83.5	75.3	92.2					83.7	
OR EQUAL TO 74 MPH	64 MPH	91.0	94.3	90.6	94.7	100.0	88.2	95.8	98.3	93.4	97.8	98.7					98.8	
DIRECTION: NB	N OF VEHICLES	116	140	109	128	7	12	93	95	46	52	47	43					
DIRECTION: SB	AVERAGE SPEED	56.80	56.73	56.90	56.77	55.40	56.33	55.30	55.04	54.70	54.69	55.80						

TABLE A15 : SPEED DATA

STATION: UIALL HIGHWAY: URBAN INTERSTATE

THIS OBSERVATION DATE: JUNE TO AUGUST 1984

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
DATE: JUNE TO AUGUST 1983

PASSENGER CARS						TRUCKS											
OBSERVATION	ALL			INDIANA			NON-INDIANA			ALL			<5000 LBS.	>5000 LBS.			
	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT
NUMBER OF VEHICLES	509	775	387	553	122	222	291	516	121	190	170	326					
AVE. SPEED (MPH)	58.59	58.72	58.72	58.83	58.18	58.44	57.42	57.01	57.75	58.13	57.18	56.36					
STANDARD DEVIATION	3.974	4.443	4.077	4.433	3.611	4.468	4.128	4.587	4.286	4.903	4.008	4.267					
24 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
34 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
39 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0					
PERCENT OF	44 MPH	0.4	0.5	0.5	0.2	0.0	1.4	0.3	0.8	0.0	1.1	0.6					
VEHICLES	49 MPH	1.4	1.8	1.8	1.3	0.0	3.2	3.4	5.8	1.7	2.6	4.7					
TRAVELING	54 MPH	12.0	14.6	10.9	14.8	15.6	14.0	20.3	25.6	19.8	18.9	20.6					
LESS THAN	59 MPH	61.1	58.2	59.4	57.1	66.4	60.8	72.9	71.5	69.4	62.1	75.3					
OR	64 MPH	93.5	90.6	93.8	90.4	92.6	91.0	98.3	95.5	96.7	91.6	99.4					
EQUAL TO	69 MPH	99.4	99.5	99.2	99.5	100.0	99.5	99.3	99.4	98.3	98.4	100.0					
	74 MPH	99.8	100.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
	79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE A16 : SPEED DATA

STATION: RIALL HIGHWAY: RURAL INTERSTATE

THIS OBSERVATION DATE: JUNE TO AUGUST 1984

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
DATE: JUNE TO AUGUST 1983

PASSENGER CARS						TRUCKS							
	ALL	INDIANA	NON-INDIANA		ALL	<5000 LBS.	>5000 LBS.		ALL	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT
OBSERVATION	LAST	PRES-ENT	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	PRES-ENT	LAST	PRES-ENT	PRES-ENT	PRES-ENT	PRES-ENT
NUMBER OF VEHICLES	1051	1227	658	745	393	482	597	861	255	242	342	619	
AVE. SPEED (MPH)	59.53	59.79	59.24	59.32	60.02	60.50	58.62	58.18	58.53	58.36	58.70	58.11	
STANDARD DEVIATION	4.110	4.529	4.152	4.376	3.998	4.671	4.307	4.213	4.446	4.370	4.205	4.152	
24 MPH	0.0	0.	0.0	0.	0.0	0.	0.	0.	0.0	0.	0.0	0.	
29 MPH	0.0	0.	0.0	0.	0.0	0.	0.	0.	0.0	0.	0.0	0.	
34 MPH	0.0	0.	0.0	0.	0.0	0.	0.	0.	0.0	0.	0.0	0.	
39 MPH	0.1	0.	0.0	0.	0.3	0.	0.0	0.	0.0	0.	0.0	0.	
PERCENT OF	44 MPH	0.1	0.	0.0	0.	0.3	0.	0.2	0.2	0.0	0.4	0.3	0.2
VEHICLES	49 MPH	1.2	1.0	1.5	1.3	0.8	0.4	2.0	2.1	2.0	2.1	2.0	2.1
TRAVELING	54 MPH	8.8	10.2	10.3	11.3	6.4	8.5	15.1	16.6	16.5	15.7	14.0	17.0
LESS THAN	59 MPH	51.7	50.6	55.0	55.3	46.1	43.4	58.5	62.4	57.3	59.5	59.4	63.5
OR	64 MPH	89.6	87.8	91.0	89.0	87.3	85.9	93.0	93.7	93.3	92.1	92.7	94.3
EQUAL TO	69 MPH	98.6	97.4	98.5	97.7	98.7	96.9	99.2	99.1	98.8	99.2	99.4	99.0
	74 MPH	99.8	99.4	99.8	99.9	99.7	98.8	99.8	100.0	99.6	100.0	100.0	100.0
	79 MPH	100.0	99.8	100.0	100.0	100.0	99.4	99.8	100.0	99.6	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE A17 : SPEED DATA

STATION: 4LALL HIGHWAY: 4-LANE
 THIS OBSERVATION DATE: JUNE TO AUGUST 1984

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
 DATE: JUNE TO AUGUST 1983

PASSENGER CARS										TRUCKS													
ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.		ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT		
NUMBER OF VEHICLES	1065	1119	864	858	201	262	610	835	319	373	291	464											
AVE. SPEED (MPH)	57.48	57.93	57.36	57.74	58.01	58.71	56.41	56.91	56.40	57.14	56.42	56.91											
STANDARD DEVIATION	4.811	4.756	4.823	4.883	4.737	4.904	5.251	5.241	5.076	5.523	5.444	5.676											
24 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
29 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
34 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.3											
39 MPH	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.5	0.8	0.3	0.5											
PERCENT OF	44 MPH	0.8	0.7	0.9	0.8	0.5	0.4	2.1	2.4	1.6	2.1	2.7											
VEHICLES	49 MPH	4.6	4.5	5.1	5.2	2.5	1.9	8.0	7.1	7.8	6.7	8.2											
TRAVELING	54 MPH	23.8	20.1	24.8	21.8	19.9	14.5	31.8	27.1	32.9	26.0	30.6											
LESS THAN	59 MPH	69.7	63.8	70.6	64.7	65.7	60.7	74.4	67.5	74.3	66.5	74.6											
OR	64 MPH	93.4	92.6	93.6	93.4	92.5	89.7	94.1	95.4	94.7	94.9	93.5											
EQUAL TO	69 MPH	99.1	98.9	99.2	98.8	98.5	98.9	99.5	99.4	99.7	99.2	99.3											
74 MPH	99.7	99.7	99.7	99.7	100.0	99.6	99.8	100.0	99.7	99.7	100.0	99.8											
79 MPH	99.9	99.9	99.9	99.9	100.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0											
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0											
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0											

TABLE A18 : SPEED DATA

STATION: 2LALL HIGHWAY: 2-LANE
 THIS OBSERVATION DATE: JUNE TO AUGUST 1984

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 117)
 DATE: JUNE TO AUGUST 1983

PASSENGER CARS										TRUCKS					
ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.					
OBSERVATION	LAST	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT
NUMBER OF VEHICLES	1031	1114	961	1014	70	100	622	731	353	379	269	352			
AVE. SPEED (MPH)	56.25	56.56	56.27	56.53	55.97	56.86	54.81	55.15	54.98	55.23	54.57	55.07			
STANDARD DEVIATION	4.993	4.873	5.009	4.885	4.794	4.759	5.089	5.269	5.047	5.385	5.145	5.148			
24 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0
39 MPH	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.8	1.0	0.3	1.1	1.5	0.9		
PERCENT OF	44 MPH	1.2	0.9	1.2	0.9	0.0	1.0	2.9	3.1	2.3	2.1	3.7	4.3		
VEHICLES	49 MPH	7.1	6.9	7.0	6.9	8.6	7.0	12.2	12.9	12.5	12.4	11.9	13.4		
TRAVELING	54 MPH	35.9	32.8	35.8	32.8	37.1	32.0	46.3	43.1	46.2	42.5	46.5	43.8		
LESS THAN	59 MPH	77.6	76.3	77.5	76.7	78.6	72.0	84.2	80.7	83.3	78.1	85.5	83.5		
OR	64 MPH	94.6	95.1	94.5	95.0	95.7	96.0	97.3	96.4	96.3	96.6	98.5	96.3		
EQUAL TO	69 MPH	98.7	99.0	98.6	99.0	100.0	99.0	99.4	99.7	99.2	99.5	99.6	100.0		
74 MPH	99.9	99.8	99.9	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE A19 : SPEED DATA

STATION: ALL HIGHWAY: URBAN INTERSTATE
 RURAL INTERSTATE
 4~LANE
 2~LANE

THIS OBSERVATION
 DATE: JUNE TO AUGUST 1984

LAST OBSERVATION (SPEED REPORT NO. 117)
 DATE: JUNE TO AUGUST 1983

PASSENGER CARS

OBSERVATION	PASSENGER CARS						TRUCKS					
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.	ALL	ENT	PRES-	ALL	ENT	PRES-
	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	PRES-
NUMBER OF VEHICLES	36.56	4.235	28.70	31.70	786	1066	2120	2943	1048	1184	1072	1761
AVE. SPEED (MPH)	57.88	58.25	57.61	57.92	58.86	59.29	56.70	56.86	56.60	56.94	56.80	56.86
STANDARD DEVIATION	4.740	4.823	4.794	4.819	4.405	4.842	5.025	4.978	5.025	5.308	5.027	4.941
24 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 MPH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1
39 MPH	0.1	0.0	0.0	0.0	0.1	0.0	0.4	0.5	0.2	0.5	0.7	0.5
PERCENT OF VEHICLES	44 MPH	0.7	0.5	0.8	0.5	0.3	0.5	1.6	1.7	1.2	1.6	1.7
49 MPH	3.9	3.6	4.5	4.2	1.8	2.0	6.9	6.8	7.3	6.9	6.6	6.8
54 MPH	21.3	19.6	23.3	21.6	14.0	13.3	29.8	27.7	31.9	28.0	27.7	27.5
TRAVELING LESS THAN OR EQUAL TO	59 MPH	65.5	62.2	67.8	65.0	57.1	53.9	72.6	70.0	72.6	68.1	72.6
64 MPH	92.7	91.5	93.3	92.3	90.2	88.8	95.3	95.2	95.1	94.3	95.4	95.7
69 MPH	98.9	98.6	98.9	98.7	99.0	98.1	99.3	99.4	99.1	99.2	99.5	99.4
74 MPH	99.8	99.7	99.8	99.8	99.9	99.3	99.9	100.0	99.8	99.9	100.0	99.9
79 MPH	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.9
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.9
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.9

COVER DESIGN BY ALDO GIORGINI